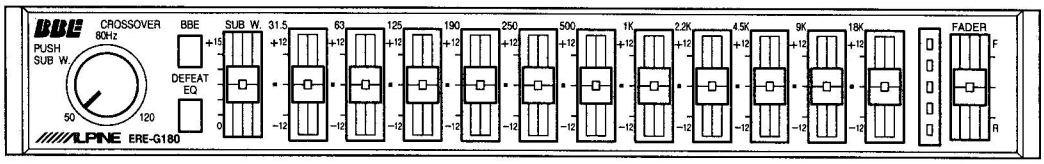
ALPINE®

# SERVICE MANUAL

## 11-Band Graphic Equalizer




# ERE-G180

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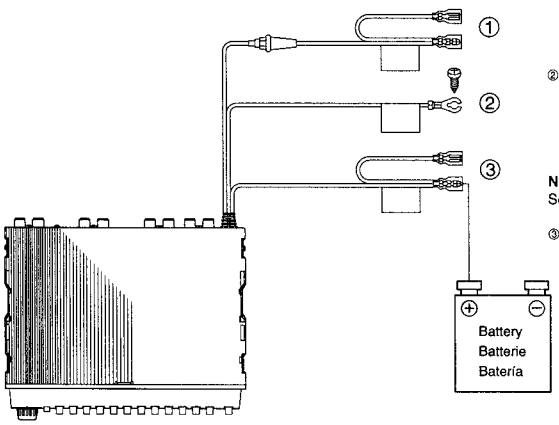
Spare Schematic Diagram Inserted.

# Specifications

| | |
|---|---|
| Power Supply | DC14.4V (11～16V) |
| Total Harmonic Distortion (2Vrms/Channel) | 0.1% |
| Input Sensitivity (Ref. 2V Output)/Impedance | 0±3dB/10k ohm |
| Output Impedance | 1k ohm |
| S/N Ratio (IHF-A) | BBE OFF : 90dB |
| | BBE ON : 85dB |
| Frequency Response (Ref. 1kHz, 30Hz～30kHz) | 0±1dB |
| Channel Crosstalk Attenuation | 60dB |
| Current Drain (2V/Channel) | 550mA |
| Fader Control Effect | 50dB |
| Equalizer Band | 31.5, 63, 125, 190, 250, 500, 1k, 2.2k, 4.5k, 9k, 18kHz |
| Frequency Shaping Equalizer Controls | Boost : 11+3, -6dB |
| | Cut : -11+3, -6dB |
| Channel Unbalance | 0±3dB |
| Subwoofer Cut-off Frequency Response (20Hz, 2V Output, Ref. -3dB) | 42±10Hz, 150±25Hz |
| Subwoofer Control Effect (at 20Hz, Input 200mV) | 15±3dB |
| Semi-Conductors | 21 IC's, 36 Transistors, 17 Diodes, 5 Zener Diodes, 1 FET |
| Dimensions (W×H×D) | Chassis : 178×25×115mm |
| | Nose : 178×25×17mm |
| Weight | 0.64kg |

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

# Connections/Connexions/Conexiones




① **Remote On Lead (BLUE/WHITE)**
Connect this lead to the remote turn-on lead of your head unit. Applying (+)12V to this lead turns on the ERE-G180. If your head unit has a power antenna output that provides (+)12V when the unit power is turned on, you may use that lead to turn the ERE-G180 on.

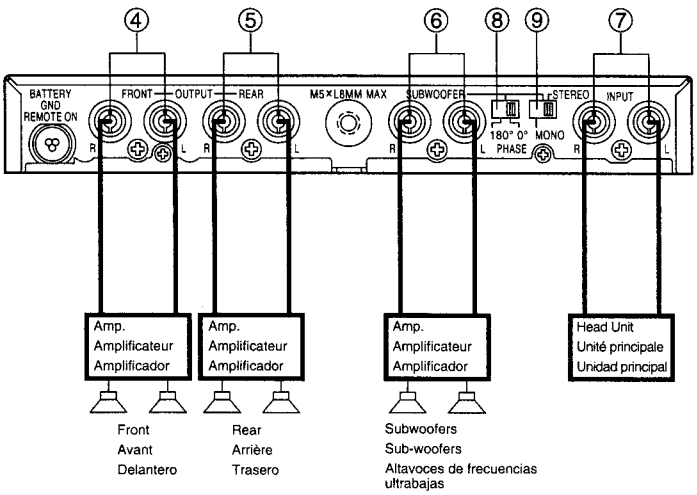
② **Ground Lead (BLACK)**
Connect this lead to a good chassis ground.
Verify this point to be a true ground by checking continuity between this point and the negative terminal of the vehicle's battery. For best results and immunity to vehicle induced noise, ground all audio components at the same ground point.

**NOTE:**
Secure the ground lead of the unit to bare metal on the car chassis using a sheet metal screw.

③ **Battery Lead (YELLOW)**
Connect this lead to the positive (+) post of the vehicle's battery.

**NOTE:**
+12V is required on this line to turn on the ERE-G180. If your head unit does not have a remote-on or power-antenna turn-on wire, a SPST switch must be connected between an ignition source and this terminal. Then, the ERE-G180 can be turned on.

# Basic System/Système base/Sistema básico




Speakers/Haut-parleurs/Altavoces

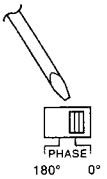
④ **Front Output Connector**
(to front speaker amplifier or signal processor)

⑤ **Rear Output Connector**
(to rear speaker amplifier or signal processor)

⑥ **Subwoofer Output Connector**
(to subwoofer amplifier or signal processor)

⑦ **Input Connector**

⑧ **PHASE Switch**
The acoustical characteristics of different cars varies. When using subwoofers, standing waves may be produced at low frequencies. These standing waves can cause cancellation and loss of performance at the low end. To set the PHASE switch, listen to the system while switching the phase to 0 or 180°. Leave it in the position which provides the best bass response.




⑨ **STEREO/MONO Switch**
If you have one subwoofer for your system, set the STEREO/MONO switch to the MONO position. When using two or more subwoofers, the switch may be set to either MONO or STEREO. In the STEREO mode, you may gain some sound separation (depending upon the music material). On the other hand, in the MONO position, the subwoofers will share the load more equally and can play louder. Experiment to see which sounds better for your application.

**NOTE:**
The PHASE and STEREO/MONO switches should be set before the installation is completed.

## Operation

English

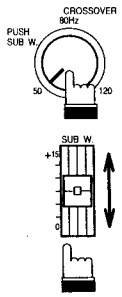
### Turning Power On and Off

The ERE-G180 is turned on and off automatically when your head unit is switched on and off.

### Adjusting the Subwoofer Level

The ERE-G180 provides full user control of the subwoofer output. Not only can the output level be adjusted to +15 dB but frequency of the crossover point is continuously adjustable, input can be summed using the STEREO/MONO switch and a PHASE switch provides 0 or 180° phase shift.

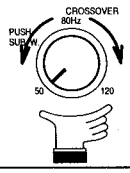
**1**




The LED on the SUBWOOFER LEVEL control will be off when the SUBWOOFER ON/OFF switch is in the "OFF" position. In this mode, the FRONT and REAR outputs will be full-range signals with no signal to the SUB-WOOFER output.
The LED on the SUBWOOFER LEVEL control will illuminate in amber when the SUB-WOOFER ON/OFF switch is in the "ON" position. In this mode, the FRONT and REAR outputs will be high-pass and the SUB-WOOFER output will receive the low-pass signals.

**Note:** Push the SUBWOOFER ON/OFF switch to set the subwoofer mode to ON. Push the switch again to set the mode to OFF.

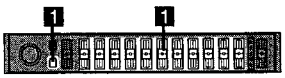
**2**



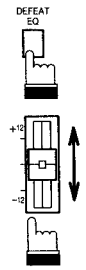

Select a crossover frequency between 50 and 120 Hz using the CROSSOVER FREQUENCY control.

English

### Adjusting the Equalizer and Defeat Controls




**1**




The EQUALIZER DEFEAT switch will be illuminated green when it is in the "OFF" position. In this mode, all the equalizer settings are in effect. The LED indicators on the EQUALIZER controls will be on.

**Note:** The EQUALIZER DEFEAT switch will be illuminated amber when it is in the "ON" position. In this mode, the equalizer settings will not effect the output (except for BBE if turned on). The LED indicators on the EQUALIZER controls will be off.

## Operation

English

### Adjusting the Volume/Tone/Fader Controls

**1**

Adjust the volume and tone controls of your head unit and the FADER control on the ERE-G180 to suit your listening preference. Regardless of the EQUALIZER DEFEAT switch position, the OUTPUT LEVEL indicators will light up in response to the input signal levels. The input signal level is controlled by the volume control of your head unit.

**Note:** If the red LED lights up continuously, the output of the ERE-G180 could be distorted. Reduce the input level using the head units volume control. The red LED should only light intermittently for optimum sound quality.

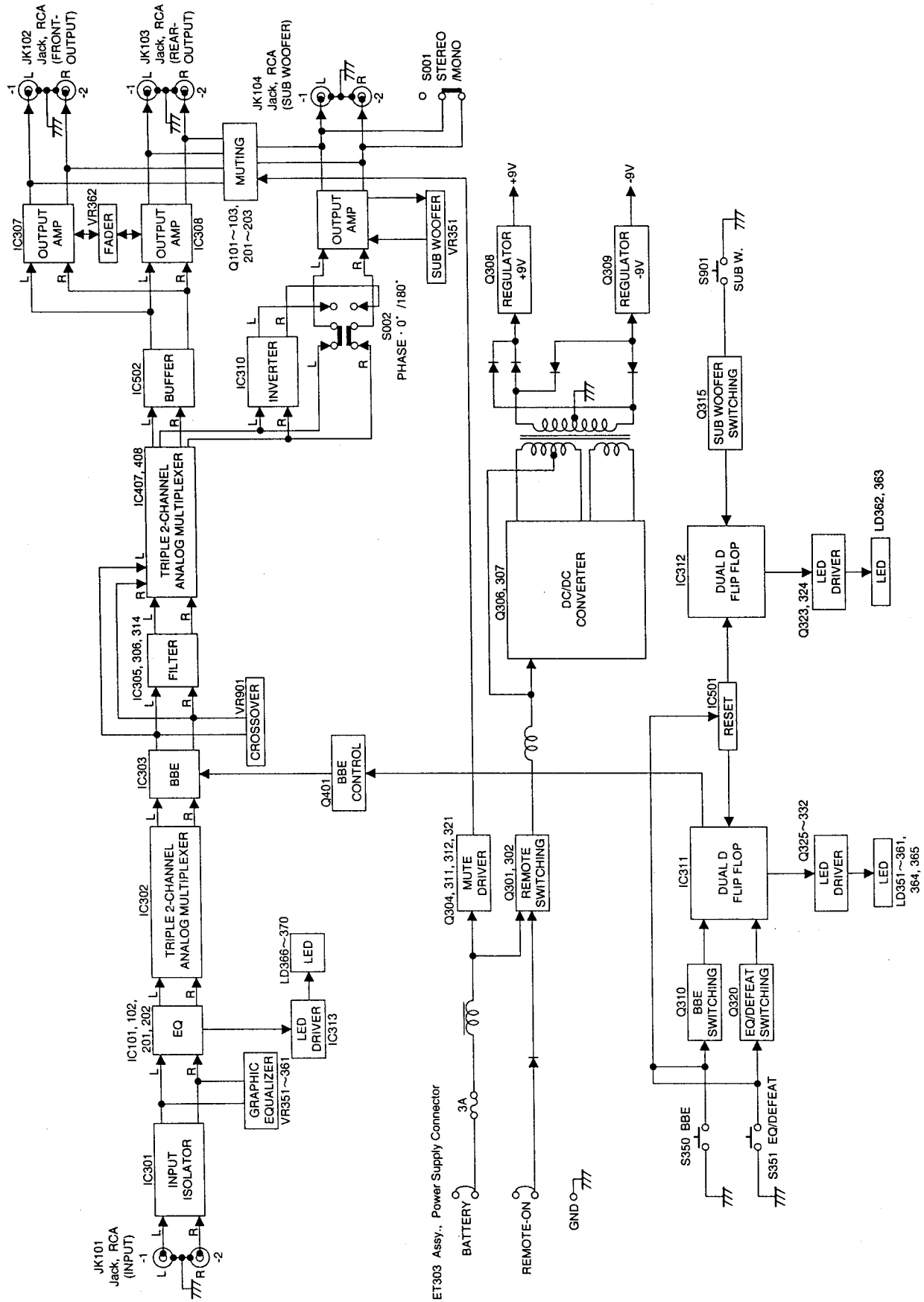
### Selecting the BBE Mode

**1**

Press the BBE switch to set the ERE-G180 to the BBE mode.
With each press, the BBE is toggled On or Off.

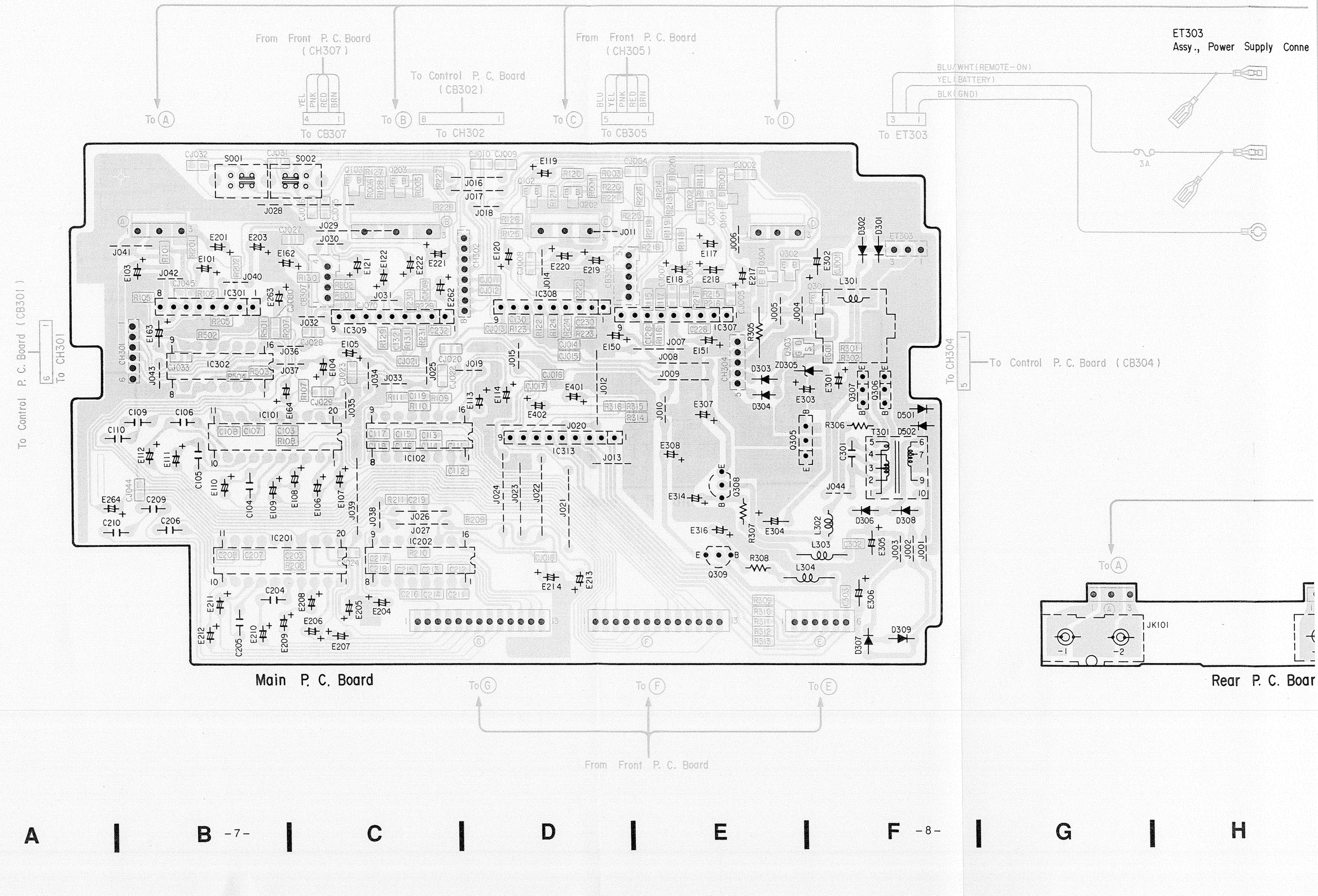
**Notes:**
- When the BBE switch is illuminated in amber, the BBE is in effect.
- The BBE switch will be illuminated amber when it is in the "ON" position.

# Block Diagram



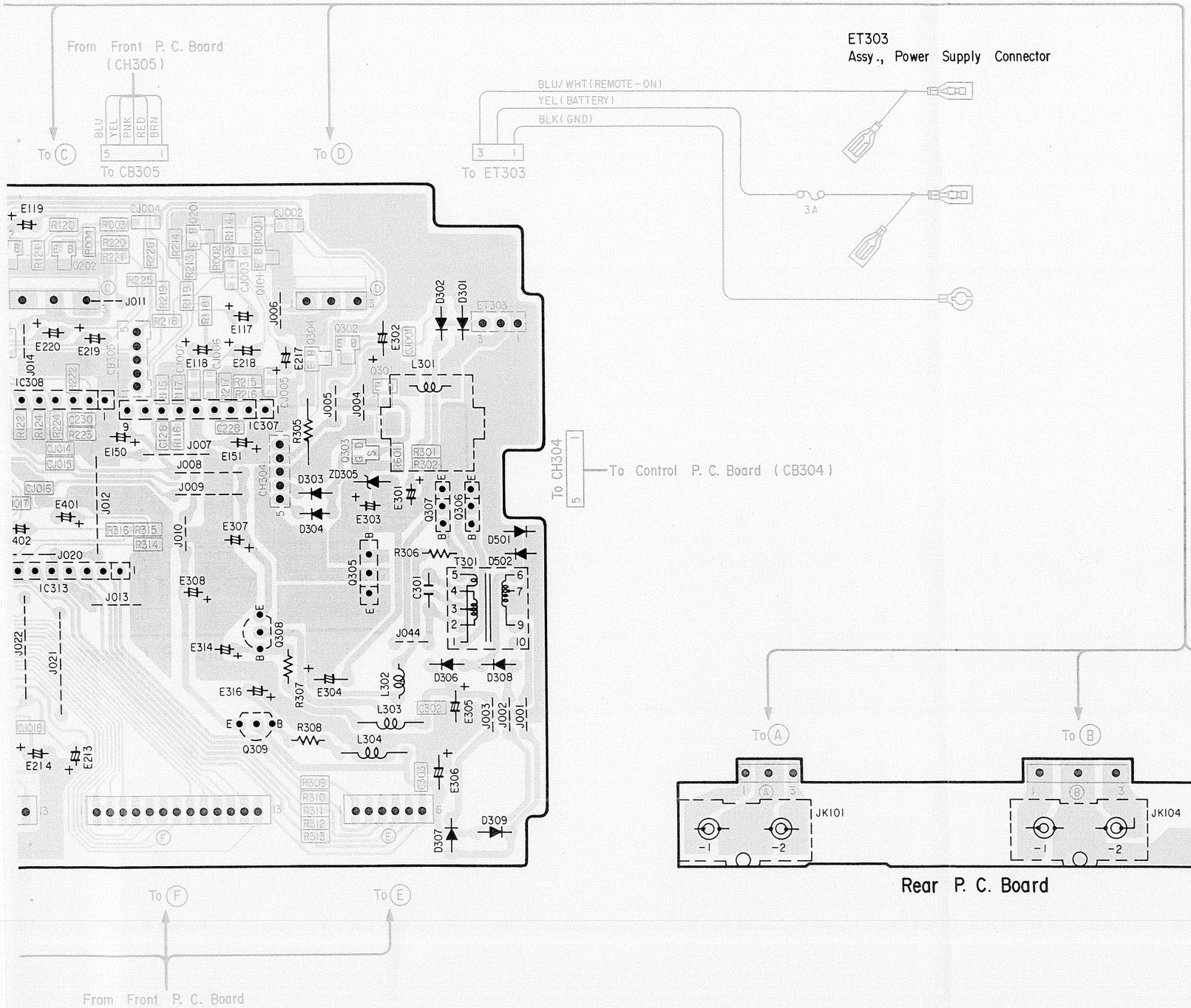
# Parts Layout on P.C. Boards and Wiring Diagram (1/2)

**All P.C. Boards viewed from soldered side.**



# m (1/2)

## All P.C. Boards viewed from soldered side.

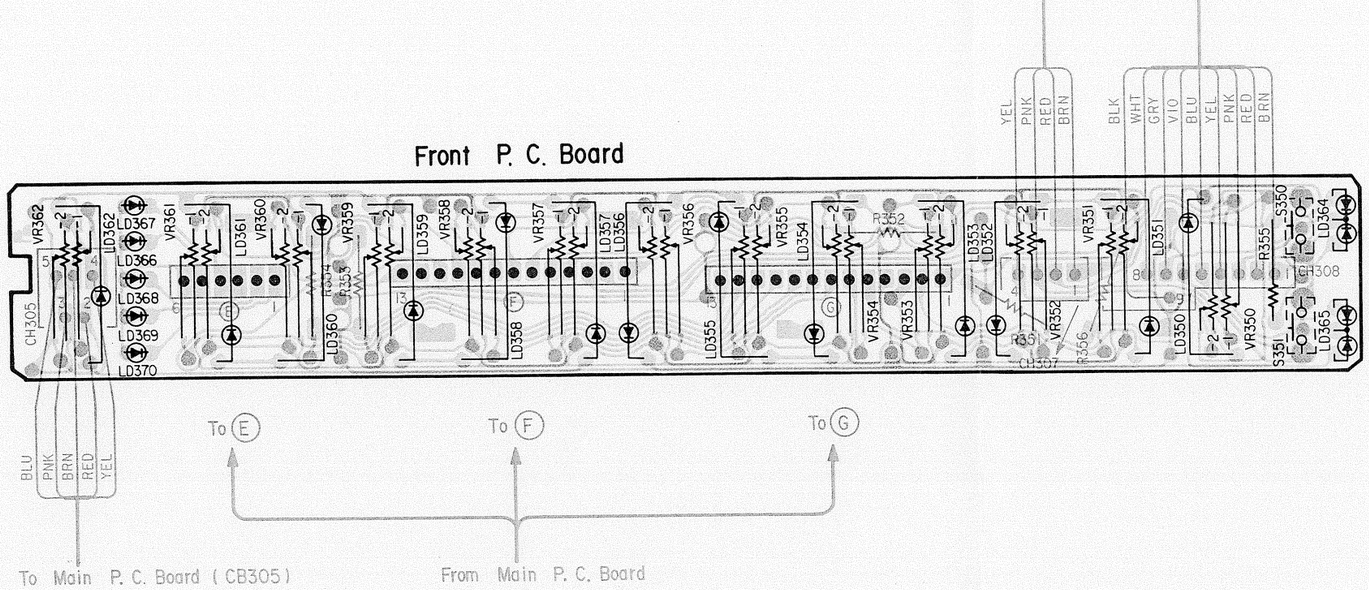


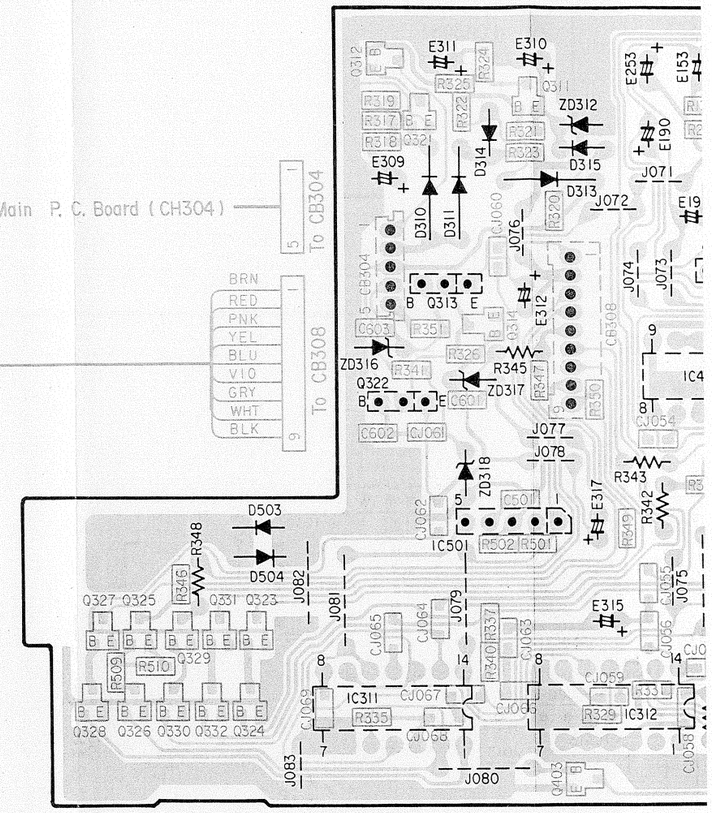

Blue Color Pattern : Foil Side Pattern

ERE-G180 ERE-G180

# Parts Layout on P.C. Boards and Wiring Diagram (2/2)

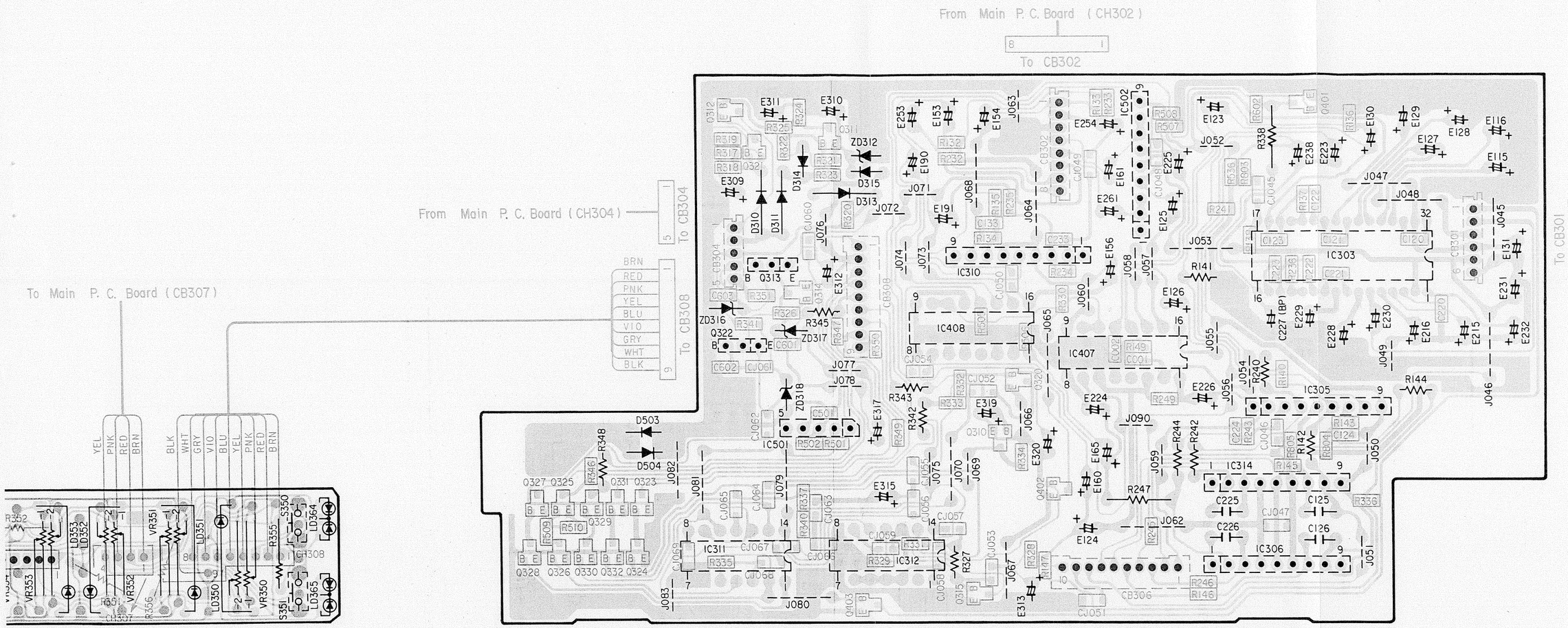
**All P.C. Boards viewed from soldered side.**




Volume F

# n (2/2) All P.C. Boards viewed from soldered side.




Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

# Schematic Diagram (1/2)

| IC | IC301 | IC101<br>IC201 | IC102<br>IC202 | IC307 IC308<br>IC309 | IC302 |
|---|---|---|---|---|---|
| Transistor (Q) | | | Q101 Q201<br>Q102 Q202<br>Q103 Q203 | | Q308 Q309<br>Q305 Q303 Q304 Q301 Q30 |

Main P.C.Board

Rear P.C.Board

Front P.C.Board

To Control P.C.Board (CB308)

IC301 NJM2082L — INPUT ISOLATOR

IC101 M5229P — EQ

IC102 M5227P — EQ

IC201 M5229P — EQ

IC202 M5227P — EQ

IC307 μPC4570HA — OUTPUT AMP

IC308 μPC4570HA — OUTPUT AMP

IC309 μPC4570HA — OUTPUT AMP

IC302 GD4053B — TRIPLE 2-CHANNEL ANALOG MULTIPLEXER

LOGIC LEVEL CONVERTER

TRUE/COMPLE BUFFER

Q101 2SD1328 — MUTING

Q102 2SD1328 — MUTING

Q103 2SD1328 — MUTING

Q201 2SD1328 — MUTING

Q202 2SD1328 — MUTING

Q203 2SD1328 — MUTING

Q308 2SD1857 — REGULATOR+9V

Q309 2SB1243 — REGULATOR-9V

Q305 KTD2058A — V. STABILIZER

Q304 DTA124EK — MUTE DRIVER

Q303 KTK211

JK101 Jack,RCA (INPUT L/R)

JK102 Jack,RCA (FRONT-OUTPUT L/R)

JK103 Jack,RCA (REAR-OUTPUT L/R)

JK104 Jack,RCA (SUB WOOFER L/R)

S001 STEREO/MONO HS-2211

S002 PHASE 0°/180° HS-2211

S350 BBE

S351 EQ/DEFEAT

VR350 SUB WOOFER

VR351 VR352 VR353 VR354 VR355 VR356 VR357 VR358 VR359 VR360 VR361

VR362 FADER

LD350 SUB WOOFER

LD351 31.5Hz

LD352 63Hz

LD353 125Hz

LD354 190Hz

LD355 250Hz

LD356 500Hz

LD357 1KHz

LD358 2.2KHz

LD359 4.5KHz

LD360 9KHz

LD361 18KHz

LD362 FADER

LD364 AAB4607K

LD365 AAB4607K

LD366 PRK524K

LD367 PYK524K

LD368 PYK524K

LD369 BRK524K

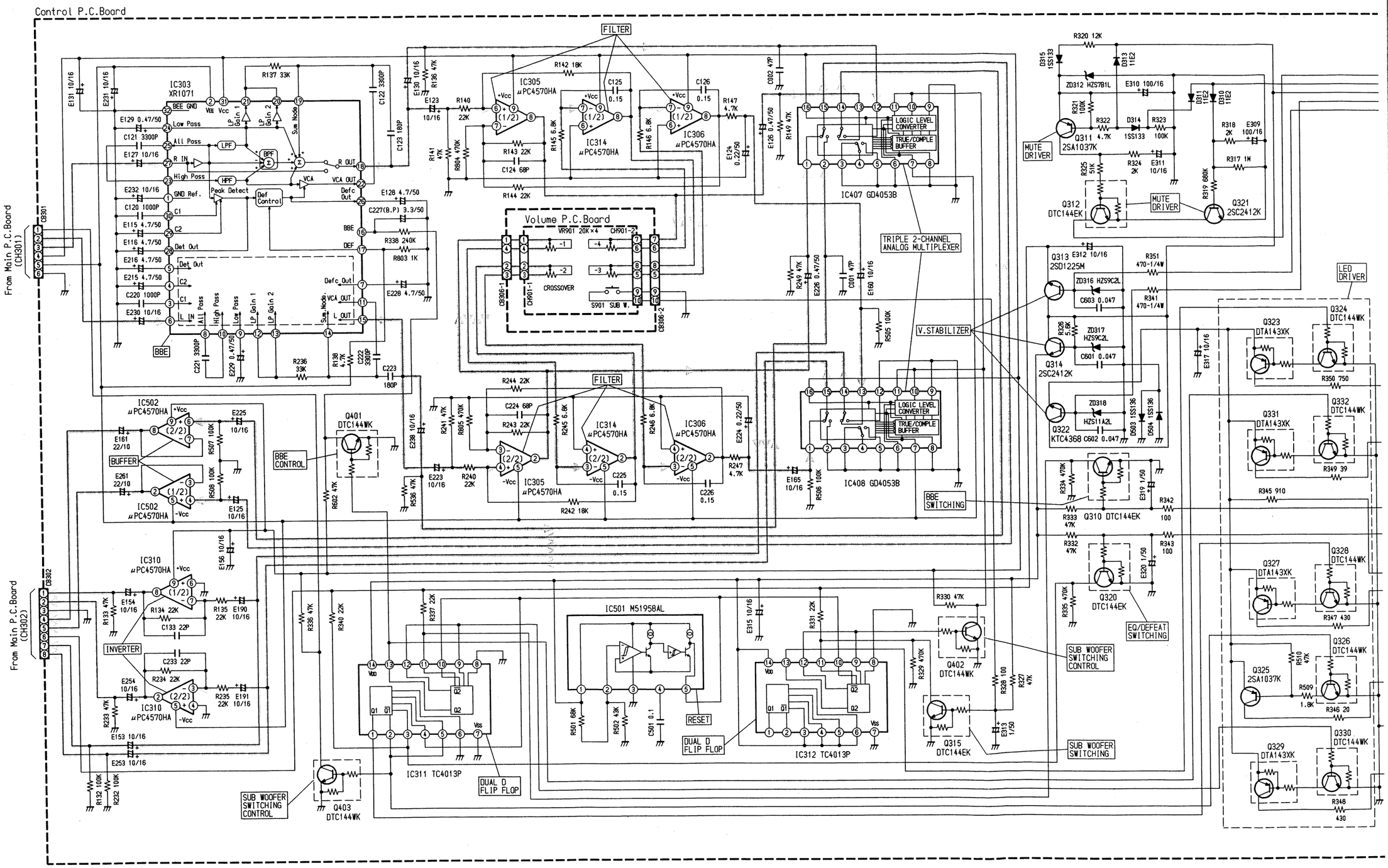
LD370 BRK524K

CB307 CH307 CB305 CH305 CH308

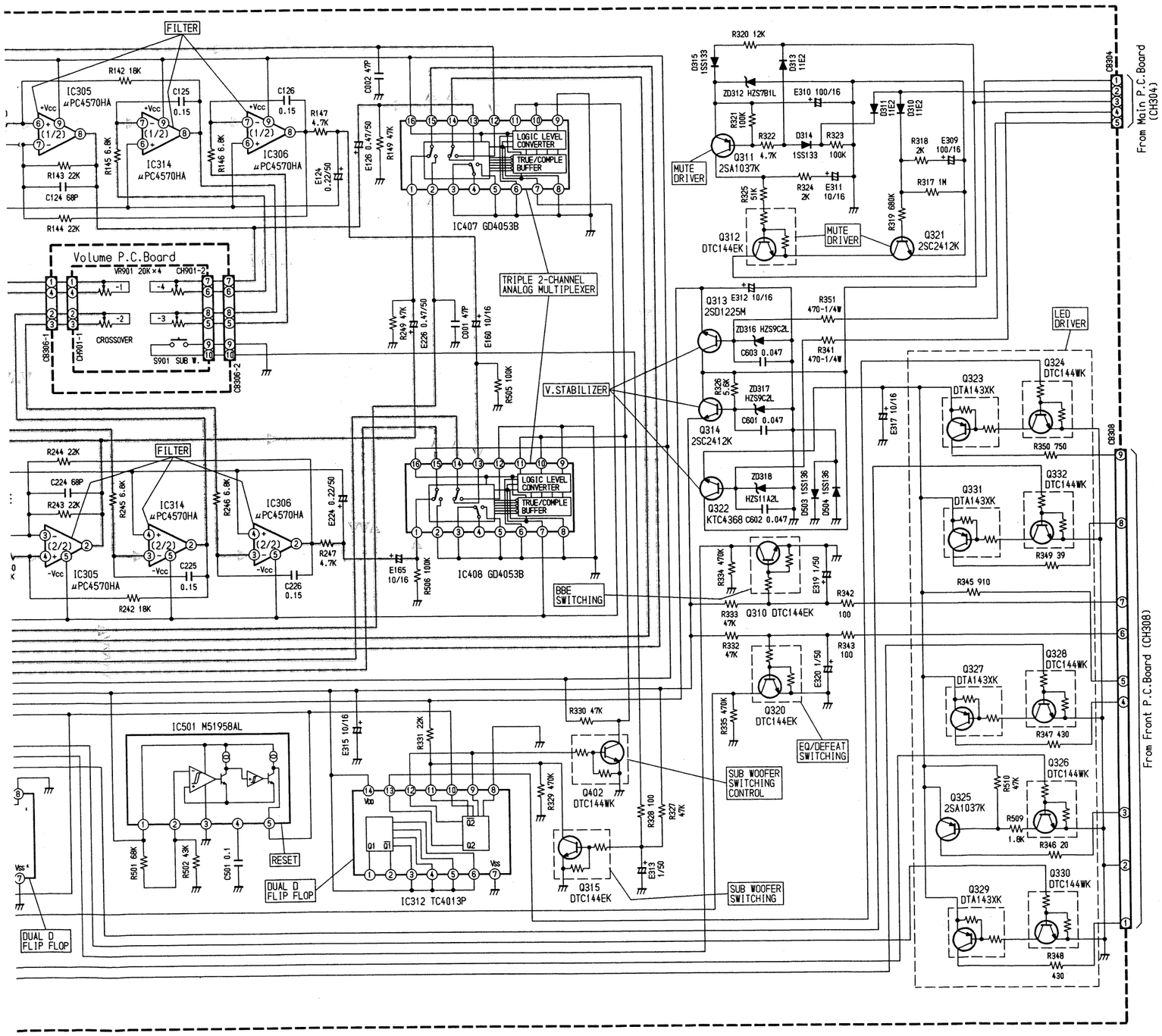
ERE-G180 ERE-G180

# Schematic Diagram (2/2)

| IC | IC502 IC310 | IC303 | IC311 | IC305 | IC314 | IC501 | IC306 | IC312 | IC407 IC408 |
|---|---|---|---|---|---|---|---|---|---|
| Transistor (Q) | Q403 | Q401 | | | | | | Q315 Q402 | Q313 Q311 Q312 Q314 Q322 Q310 Q320 Q321 Q323 Q331 Q327 Q325 Q329 Q324 Q332 Q328 Q326 Q330 |



IC305 IC314 IC306 IC407 IC408
IC501 IC312
Q313 Q311 Q312 Q321
Q314 Q322 Q310 Q323 Q331 Q324 Q332
Q320 Q327 Q325 Q329 Q328 Q326 Q330
Q315 Q402




**IC303**

| | |
|---|---|
| 1 | 0.4V |
| 2 | -7.6V |
| 3~15 | 0.58V |
| 16 | 1.1V |
| 17 | -0.8V |
| 18~30 | 0.58V |
| 31 | 8.9V |
| 32 | 0.58V |

**IC305**

| | |
|---|---|
| 1 | NC |
| 2 | -1.3V |
| 3 | 0.2V |
| 4 | 0V |
| 5 | -8.8V |
| 6 | 0V |
| 7 | 0.6V |
| 8 | -1.3V |
| 9 | 8.8V |

**IC306**

| | |
|---|---|
| 1 | NC |
| 2 | 0.7V |
| 3 | 0.7V |
| 4 | 0.4V |
| 5 | -8.8V |
| 6 | 0.4V |
| 7 | 0.8V |
| 8 | 1.2V |
| 9 | 8.9V |

**IC310**

| | |
|---|---|
| 1 | NC |
| 2 | -0.4V |
| 3 | 0.7V |
| 4 | 0.4V |
| 5 | -8.9V |
| 6 | 0.3V |
| 7 | 0.9V |
| 8 | 0V |
| 9 | 8.9V |

**IC311**

| | | | |
|---|---|---|---|
| 1 | 3.6V | 8 | 3.6V |
| 2 | 8.6V | 9 | 8.7V |
| 3 | 14V | 10 | 9.5V |
| 4 | 9.5V | 11 | 13.9V |
| 5 | 8.7V | 12 | 8.7V |
| 6 | 3.6V | 13 | 3.6V |
| 7 | 3.6V | 14 | 8.7V |

**IC312**

| | | | |
|---|---|---|---|
| 1 | NC | 8 | 3.6V |
| 2 | NC | 9 | 8.7V |
| 3 | 8.7V | 10 | 9.4V |
| 4 | 8.7V | 11 | 13.6V |
| 5 | 8.7V | 12 | 8.7V |
| 6 | 8.7V | 13 | 3.6V |
| 7 | 3.6V | 14 | 8.7V |

**IC314**

| | |
|---|---|
| 1 | NC |
| 2 | -1.2V |
| 3 | 0.7V |
| 4 | 0.3V |
| 5 | -8.8V |
| 6 | 0.4V |
| 7 | 0.6V |
| 8 | -1.1V |
| 9 | 8.8V |

**IC407**

| | |
|---|---|
| 1 | 0.4V |
| 2 | 0.1V |
| 3 | 0.4V |
| 4 | NC |
| 5 | 0.4V |
| 6 | 0.4V |
| 7 | -8.8V |
| 8 | 0.4V |
| 9 | 0.4V |
| 10 | 11.5V |
| 11 | 11.5V |
| 12 | 0.4V |
| 13 | 0.4V |
| 14 | 0.4V |
| 15 | 0.1V |
| 16 | 8.9V |

**IC408**

| | |
|---|---|
| 1 | 0.4V |
| 2 | 0.4V |
| 3 | 0.4V |
| 4 | NC |
| 5 | 0.4V |
| 6 | 0.4V |
| 7 | -8.8V |
| 8 | 0.4V |
| 9 | 0.4V |
| 10 | 11.5V |
| 11 | 11.5V |
| 12 | 0.4V |
| 13 | 0.4V |
| 14 | 0.4V |
| 15 | 0.4V |
| 16 | 8.9V |

**IC501**

| | |
|---|---|
| 1 | 8.7V |
| 2 | 3.3V |
| 3 | 3.5V |
| 4 | 1.2V |
| 5 | 9.4V |

**IC502**

| | |
|---|---|
| 1 | NC |
| 2 | 6.9V |
| 3 | 6.9V |
| 4 | 6.2V |
| 5 | -8.8V |
| 6 | 0.2V |
| 7 | 6.6V |
| 8 | 6.6V |
| 9 | 8.9V |

| | E | C | B | | E | C | B |
|---|---|---|---|---|---|---|---|
| Q310 | 13.9V | 31mV | 4.5V | Q325 | 9.5V | 9.4V | 0V |
| Q311 | 6.8V | 12V | 6.7V | Q326 | 3.5V | 57V | 8.6V |
| Q312 | 11.4V | 13.5V | 11.6V | Q327 | 9.5V | 0V | 9.5V |
| Q313 | 9V | 14.1V | 9.5V | Q328 | 3.6V | 9.4V | 3.6V |
| Q314 | 8.7V | 13.5V | 9.3V | Q329 | 9.5V | 9.4V | 0V |
| Q315 | 3.6V | 13.5V | 4.6V | Q330 | 3.5V | 37V | 8.7V |
| Q320 | 3.6V | 13.8V | 4.6V | Q331 | 9.5V | 0V | 9.5V |
| Q321 | 3.4V | 3.4V | 0.5V | Q332 | 3.5V | 9.5V | 3.6V |
| Q322 | 9.5V | 13.5V | 10.1V | Q401 | 3.4V | 7.3V | 0.4V |
| Q323 | 9.5V | 0V | 9.5V | Q402 | 3.6V | 11.5V | 8.7V |
| Q324 | 3.4V | 9.5V | 3.6V | Q403 | 3.6V | 10.7V | 8.6V |

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

**NOTE:**

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

IC102
IC202

Q101 Q201
Q102 Q202
Q103 Q203

IC307 IC308
IC309

IC302

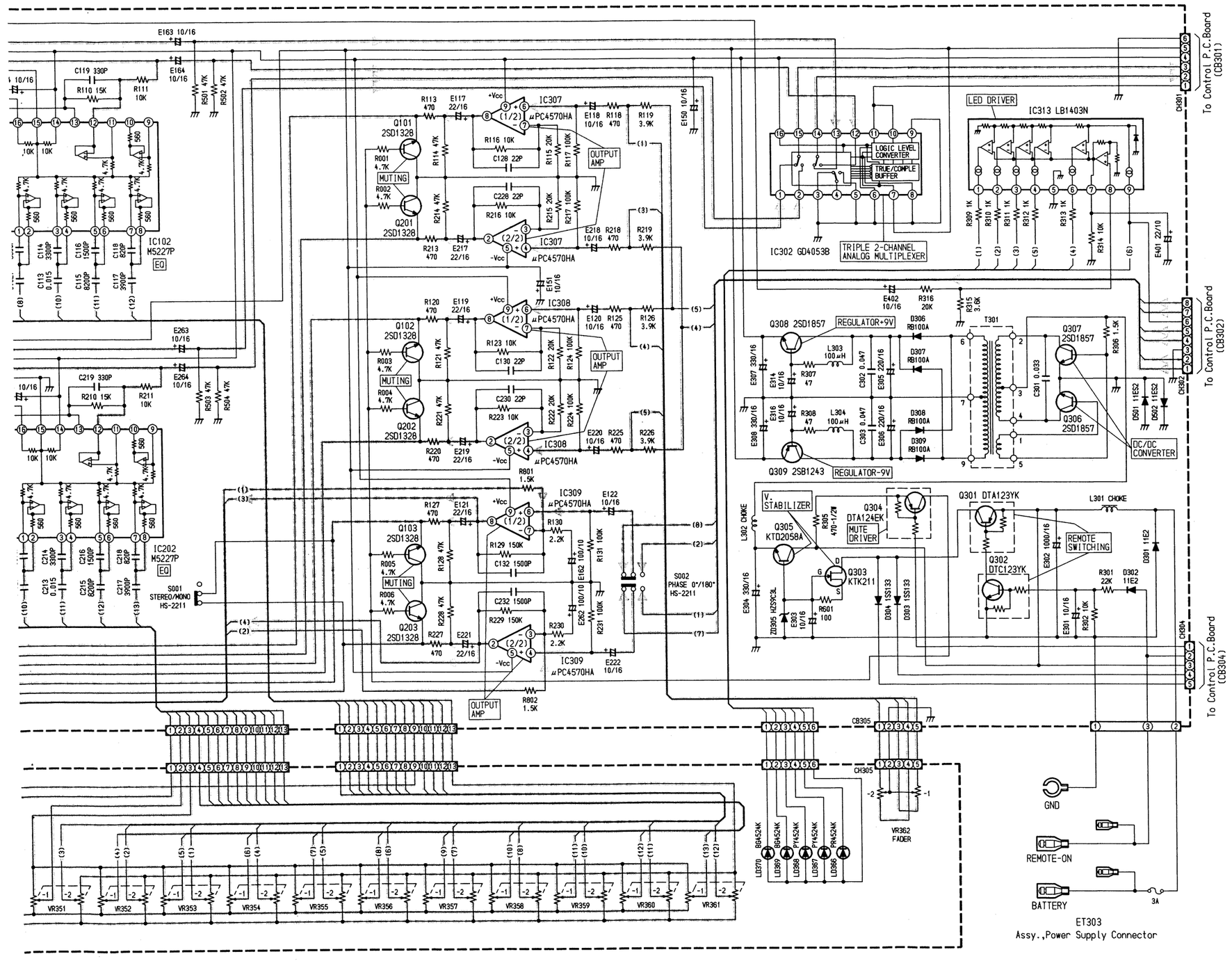
Q308 Q309
Q305

Q303 Q304

Q301 Q302

IC313

Q307 Q306




IC101

| | | | |
|---|---|---|---|
| 1 | 2.3V | 11 | 2.2V |
| 2 | 2.2V | 12 | 3.5V |
| 3 | 2.2V | 13 | 2.2V |
| 4 | 2.4V | 14 | 3.4V |
| 5 | 2.2V | 15 | 1.9V |
| 6 | 2.3V | 16 | 1.9V |
| 7 | 2.3V | 17 | 0.1V |
| 8 | 3.9V | 18 | 8.7V |
| 9 | 2.6V | 19 | 0.5V |
| 10 | 3.6V | 20 | -8.6V |

IC102

| | | | |
|---|---|---|---|
| 1 | 2.6V | 9 | NC |
| 2 | 2.8V | 10 | NC |
| 3 | 2.7V | 11 | NC |
| 4 | 3.9V | 12 | 7.8V |
| 5 | 2.7V | 13 | 0.3V |
| 6 | 3.5V | 14 | 9V |
| 7 | 2.6V | 15 | 0.7V |
| 8 | 2.4V | 16 | -8.9V |

IC201

| | | | |
|---|---|---|---|
| 1 | 2.2V | 11 | 2.2V |
| 2 | 2.2V | 12 | 3.5V |
| 3 | 2.2V | 13 | 2.2V |
| 4 | 2.4V | 14 | 3.4V |
| 5 | 2.2V | 15 | -0.9V |
| 6 | 2.3V | 16 | -1.7V |
| 7 | 2.3V | 17 | -3.5V |
| 8 | 3.8V | 18 | 8.9V |
| 9 | 2.3V | 19 | 0.6V |
| 10 | 3.8V | 20 | -8.9V |

IC202

| | | | |
|---|---|---|---|
| 1 | 2.6V | 9 | NC |
| 2 | 2.7V | 10 | NC |
| 3 | 2.6V | 11 | NC |
| 4 | 3.6V | 12 | 7.7V |
| 5 | 2.6V | 13 | 2.2V |
| 6 | 3.5V | 14 | 9V |
| 7 | 2.6V | 15 | 0.7V |
| 8 | 2.1V | 16 | -8.9V |

IC301

| | | | |
|---|---|---|---|
| 1 | 0V | | |
| 2 | 0V | | |
| 3 | 1V | | |
| 4 | -8.6V | | |
| 5 | 0.5V | | |
| 6 | -0.8V | | |
| 7 | -0.8V | | |
| 8 | 8.6V | | |

IC302

| | | | |
|---|---|---|---|
| 1 | 0.5V | 9 | 0.5V |
| 2 | 0.5V | 10 | 10V |
| 3 | 0.5V | 11 | 10V |
| 4 | NC | 12 | 0.5V |
| 5 | 0.5V | 13 | 0.6V |
| 6 | 0.5V | 14 | 0.5V |
| 7 | -8.9V | 15 | 0.5V |
| 8 | 0.5V | 16 | 9V |

IC307

| | | | |
|---|---|---|---|
| 1 | NC | | |
| 2 | 9.7V | | |
| 3 | 7.1V | | |
| 4 | 6.7V | | |
| 5 | -8.8V | | |
| 6 | 6.6V | | |
| 7 | 7.1V | | |
| 8 | 9.8V | | |
| 9 | 8.9V | | |

IC308

| | | | |
|---|---|---|---|
| 1 | NC | | |
| 2 | 10V | | |
| 3 | 7.7V | | |
| 4 | 7.6V | | |
| 5 | -8.8V | | |
| 6 | 7.3V | | |
| 7 | 7.8V | | |
| 8 | 10.8V | | |
| 9 | 8.9V | | |

IC309

| | | | |
|---|---|---|---|
| 1 | NC | | |
| 2 | 7.5V | | |
| 3 | 8.1V | | |
| 4 | 7.7V | | |
| 5 | -8.7V | | |
| 6 | 7.6V | | |
| 7 | 7.9V | | |
| 8 | 7.2V | | |
| 9 | 8.9V | | |

IC313

| | | | |
|---|---|---|---|
| 1 | 7.5V | | |
| 2 | 7.5V | | |
| 3 | 7.5V | | |
| 4 | 7.5V | | |
| 5 | 0V | | |
| 6 | 8.2V | | |
| 7 | 0V | | |
| 8 | 0.9V | | |
| 9 | 9.1V | | |

| | E | C | B |
|---|---|---|---|
| Q101 | 0.7V | 0.7V | -0.9V |
| Q102 | 0.7V | 0.7V | -0.9V |
| Q103 | 0.5V | 0.6V | 0V |
| Q201 | 0.7V | 0.7V | -0.2V |
| Q202 | 0.7V | 0.7V | -0.9V |
| Q203 | 0.5V | 0.6V | 0V |
| Q301 | 14.3V | 14.2V | 35V |
| Q302 | 0V | 35V | 1.5V |
| Q304 | 14.3V | 0.3V | 14.2V |
| Q305 | 9.2V | 14.3V | 9.8V |
| Q306 | 0V | 8.9V | 0.35V |
| Q307 | 0V | 8.9V | 0.35V |
| Q308 | 8.5V | 9.4V | 9.4V |
| Q309 | -8.5V | -9.5V | -9.4V |

| | G | D | S |
|---|---|---|---|
| Q303 | 9.6V | 14.1V | 9.93V |

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

**NOTE:**

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

# Electrical Parts List

Resistor : Carbon resistors under 1 / 4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μF=microfarads, pF=picofarads

## Abbreviations

| | | | |
|---|---|---|---|
| RES.= | Resistor | CAP.= | Capacitor |
| C.F.= | Carbon Film | ELY.= | Electrolytic |
| M.F.= | Metal Film | CER.= | Ceramic |
| M.O.= | Metal Oxide Film | MYL.= | Mylar |
| M.P.= | Metal Plate | TAN.= | Tantalum |
| TR.= | Transistor | POLY.= | Polystyrol |
| TRANS.= | Transformer | PP.= | Polypropylene |
| CP.= | Chip | PLT.= | Polyethylene |
| | | PF.= | Polyester Film |

## Main P. C. Board

### IC's

| Symbol No. | Part No. | Description |
|---|---|---|
| IC101 | 51T74296F01 | M5229P |
| IC102 | 51T84232F01 | M5227P |
| IC201 | 51T74296F01 | M5229P |
| IC202 | 51T84232F01 | M5227P |
| IC301 | 51E22491S01 | NJM2082L |
| IC302 | 51E22492S01 | GD4053B |
| IC307 | 51T83403F03 | μPC4570HA |
| IC308 | 51T83403F03 | μPC4570HA |
| IC309 | 51T83403F03 | μPC4570HA |
| IC313 | 51E22493S01 | LB1403N |

### Transistors

| Symbol No. | Part No. | Description |
|---|---|---|
| Q101 | 48T63788F01 | CP., 2SD1328 |
| Q102 | 48T63788F01 | CP., 2SD1328 |
| Q103 | 48T63788F01 | CP., 2SD1328 |
| Q201 | 48T63788F01 | CP., 2SD1328 |
| Q202 | 48T63788F01 | CP., 2SD1328 |
| Q203 | 48T63788F01 | CP., 2SD1328 |
| Q301 | 48E22513S01 | CP., DTA123YK |
| Q302 | 48E22514S01 | CP., DTC123YK |
| Q303 | 48E22515S01 | FET, CP. KTK211 |
| Q304 | 48E22092S01 | CP., DTA124EK |
| Q305 | 48E22494S01 | KTD2058A |
| Q306 | 48T55057W01 | 2SD1857 |
| Q307 | 48T55057W01 | 2SD1857 |
| Q308 | 48E22789S01 | 2SD1857 |
| Q309 | 48E09399S01 | 2SB1243 |

### Diodes

| Symbol No. | Part No. | Description |
|---|---|---|
| D301 | 48E22529S01 | 11E2 |
| D302 | 48E22529S01 | 11E2 |
| D303 | 48T68829F01 | 1SS133 |
| D304 | 48T68829F01 | 1SS133 |
| D306 | 48T25664W01 | RB100A |
| D307 | 48T25664W01 | RB100A |
| D308 | 48T25664W01 | RB100A |
| D309 | 48T25664W01 | RB100A |
| D501 | 48E20758S01 | 11ES2 |
| D502 | 48E20758S01 | 11ES2 |
| ZD305 | 48T25766W26 | Zener, HZS9C3L |

### Coils / Transformer

| Symbol No. | Part No. | Description |
|---|---|---|
| L301 | 25E22496S01 | Choke, Trans. |
| L302 | 25E22497S01 | Choke |
| L303 | 24E22531S01 | Inducctor, 100μH |
| L304 | 24E22531S01 | Inducctor, 100μH |
| T301 | 25E22495S01 | Transformer, Power (EI-1309) |

### Switches

| Symbol No. | Part No. | Description |
|---|---|---|
| S001 | 40E22502S01 | Slide, HS-2211 (STEREO / MONO) |
| S002 | 40E22502S01 | Slide, HS-2211 (PHASE · 0° / 180°) |

### Capacitors

| Symbol No. | Part No. | | |
|---|---|---|---|
| E101 | 23E09402S02 | ELY., | 10μF / 16V |
| C103 | 08E22510S01 | CP., | 180pF |
| E103 | 23E09402S02 | ELY., | 10μF / 16V |
| C104 | 08E20991S01 | PF., | 0.12μF |
| E104 | 23E09402S02 | ELY., | 10μF / 16V |
| C105 | 08E22526S01 | PF., | 0.082μF |
| E105 | 23E09402S02 | ELY., | 10μF / 16V |
| C106 | 08E22524S01 | PF., | 0.056μF |
| E106 | 23E09402S14 | ELY., | 0.47μF / 50V |
| C107 | 08E22084S01 | CP., | 0.015μF |
| E107 | 23E09402S13 | ELY., | 2.2μF / 50V |
| C108 | 08E22086S01 | CP., | 0.033μF |
| E108 | 23E22519S01 | ELY., | 0.22μF / 50V |
| C109 | 08E20991S01 | PF., | 0.12μF |
| E109 | 23E09402S01 | ELY., | 1μF / 50V |
| C110 | 08E22525S01 | PF., | 0.068μF |
| E110 | 23E09402S14 | ELY., | 0.47μF / 50V |
| C111 | 08E22089S01 | CP., | 6800pF |
| E111 | 23E09402S16 | ELY., | 0.33μF / 50V |
| C112 | 08E08577S04 | CP., | 0.027μF |

| Symbol No. | Part No. | Description | |
|---|---|---|---|
| E112 | 23E22521S01 | ELY., | 0.27μF / 50V |
| C113 | 08E22084S01 | CP., | 0.015μF |
| E113 | 23E09402S02 | ELY., | 10μF / 16V |
| C114 | 08E20767S01 | CP., | 3300pF |
| E114 | 23E09402S02 | ELY., | 10μF / 16V |
| C115 | 08E21165S01 | CP., | 8200pF |
| C116 | 08E08577S02 | CP., | 1500pF |
| C117 | 08E22512S01 | CP., | 3900pF |
| E117 | 23E09402S11 | ELY., | 22μF / 16V |
| C118 | 08E22511S01 | CP., | 820pF |
| E118 | 23E09402S02 | ELY., | 10μF / 16V |
| C119 | 08E22079S01 | CP., | 330pF |
| E119 | 23E09402S11 | ELY., | 22μF / 16V |
| E120 | 23E09402S02 | ELY., | 10μF / 16V |
| E121 | 23E09402S11 | ELY., | 22μF / 16V |
| E122 | 23E09402S02 | ELY., | 10μF / 16V |
| C128 | 08E20550S01 | CP., | 22pF |
| C130 | 08E20550S01 | CP., | 22pF |
| C132 | 08E08577S02 | CP., | 1500pF |
| E150 | 23E09402S02 | ELY., | 10μF / 16V |
| E151 | 23E09402S02 | ELY., | 10μF / 16V |
| E162 | 23E09402S09 | ELY., | 100μF / 10V |
| E163 | 23E22520S01 | ELY., | 10μF / 16V |
| E164 | 23E09402S02 | ELY., | 10μF / 16V |
| E201 | 23E09402S02 | ELY., | 10μF / 16V |
| C203 | 08E22510S01 | CP., | 180pF |
| E203 | 23E09402S02 | ELY., | 10μF / 16V |
| C204 | 08E20991S01 | PF., | 0.12μF |
| E204 | 23E09402S02 | ELY., | 10μF / 16V |
| C205 | 08E22526S01 | PF., | 0.082μF |
| E205 | 23E09402S02 | ELY., | 10μF / 16V |
| C206 | 08E22524S01 | PF., | 0.056μF |
| E206 | 23E09402S14 | ELY., | 0.47μF / 50V |
| C207 | 08E22084S01 | CP., | 0.015μF |
| E207 | 23E09402S13 | ELY., | 2.2μF / 50V |
| C208 | 08E22086S01 | CP., | 0.033μF |
| E208 | 23E22519S01 | ELY., | 0.22μF / 50V |
| C209 | 08E20991S01 | PF., | 0.12μF |
| E209 | 23E09402S01 | ELY., | 1μF / 50V |
| C210 | 08E22525S01 | PF., | 0.068μF |
| E210 | 23E09402S14 | ELY., | 0.47μF / 50V |
| C211 | 08E22089S01 | CP., | 6800pF |
| E211 | 23E09402S16 | ELY., | 0.33μF / 50V |
| C212 | 08E08577S04 | CP., | 0.027μF |
| E212 | 23E22521S01 | ELY., | 0.27μF / 50V |
| C213 | 08E22084S01 | CP., | 0.015μF |
| E213 | 23E09402S02 | ELY., | 10μF / 16V |
| C214 | 08E20767S01 | CP., | 3300pF |
| E214 | 23E09402S02 | ELY., | 10μF / 16V |
| C215 | 08E21165S01 | CP., | 8200pF |
| C216 | 08E08577S02 | CP., | 1500pF |
| C217 | 08E22512S01 | CP., | 3900pF |

| Symbol No. | Part No. | Description | |
|---|---|---|---|
| E217 | 23E09402S11 | ELY., | 22μF / 16V |
| C218 | 08E22511S01 | CP., | 820pF |
| E218 | 23E09402S02 | ELY., | 10μF / 16V |
| C219 | 08E22079S01 | CP., | 330pF |
| E219 | 23E09402S11 | ELY., | 22μF / 16V |
| E220 | 23E09402S02 | ELY., | 10μF / 16V |
| E221 | 23E09402S11 | ELY., | 22μF / 16V |
| E222 | 23E09402S02 | ELY., | 10μF / 16V |
| C228 | 08E20550S01 | CP., | 22pF |
| C230 | 08E20550S01 | CP., | 22pF |
| C232 | 08E08577S02 | CP., | 1500pF |
| E262 | 23E09402S09 | ELY., | 100μF / 10V |
| E263 | 23E09402S02 | ELY., | 10μF / 16V |
| E264 | 23E09402S02 | ELY., | 10μF / 16V |
| C301 | 08E20755S01 | PF., | 0.033μF |
| E301 | 23E09402S02 | ELY., | 10μF / 16V |
| C302 | 08E22087S01 | CP., | 0.047μF |
| E302 | 23E09551S07 | ELY., | 1000μF / 16V |
| C303 | 08E22087S01 | CP., | 0.047μF |
| E303 | 23E09402S02 | ELY., | 10μF / 16V |
| E304 | 23E22522S01 | ELY., | 330μF / 16V |
| E305 | 23E22523S01 | ELY., | 220μF / 16V |
| E306 | 23E22523S01 | ELY., | 220μF / 16V |
| E307 | 23E22522S01 | ELY., | 330μF / 16V |
| E308 | 23E22522S01 | ELY., | 330μF / 16V |
| E314 | 23E09402S02 | ELY., | 10μF / 16V |
| E316 | 23E09402S02 | ELY., | 10μF / 16V |
| E401 | 23E09402S07 | ELY., | 22μF / 10V |
| E402 | 23E09402S02 | ELY., | 10μF / 16V |

Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)

| | | |
|---|---|---|
| R001 | 06E22055S01 | 4.7K ohm |
| R002 | 06E22055S01 | 4.7K ohm |
| R003 | 06E22055S01 | 4.7K ohm |
| R004 | 06E22055S01 | 4.7K ohm |
| R005 | 06E22055S01 | 4.7K ohm |
| R006 | 06E22055S01 | 4.7K ohm |
| R101 | 06E22062S01 | 47K ohm |
| R102 | 06E22048S01 | 1K ohm |
| R105 | 06E22062S01 | 47K ohm |
| R107 | 06E22054S01 | 3.9K ohm |
| R108 | 06E22054S01 | 3.9K ohm |
| R109 | 06E20903S01 | 10K ohm |
| R110 | 06E22507S01 | 15K ohm |
| R111 | 06E20903S01 | 10K ohm |
| R113 | 06E22505S01 | 470 ohm |
| R114 | 06E22062S01 | 47K ohm |
| R115 | 06E22508S01 | 20K ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R116 | 06E20903S01 | 10K ohm |
| R117 | 06E22065S01 | 100K ohm |
| R118 | 06E22505S01 | 470 ohm |
| R119 | 06E22054S01 | 3.9K ohm |
| R120 | 06E22505S01 | 470 ohm |
| R121 | 06E22062S01 | 47K ohm |
| R122 | 06E22508S01 | 20K ohm |
| R123 | 06E20903S01 | 10K ohm |
| R124 | 06E22065S01 | 100K ohm |
| R125 | 06E22505S01 | 470 ohm |
| R126 | 06E22054S01 | 3.9K ohm |
| R127 | 06E22505S01 | 470 ohm |
| R128 | 06E22062S01 | 47K ohm |
| R129 | 06E22509S01 | 150K ohm |
| R130 | 06E22504S01 | 2.2K ohm 1/8W |
| R131 | 06E22065S01 | 100K ohm |
| R201 | 06E22062S01 | 47K ohm |
| R202 | 06E22048S01 | 1K ohm |
| R205 | 06E22062S01 | 47K ohm |
| R207 | 06E22054S01 | 3.9K ohm |
| R208 | 06E22054S01 | 3.9K ohm |
| R209 | 06E20903S01 | 10K ohm |
| R210 | 06E22507S01 | 15K ohm |
| R211 | 06E20903S01 | 10K ohm |
| R213 | 06E22505S01 | 470 ohm |
| R214 | 06E22062S01 | 47K ohm |
| R215 | 06E22508S01 | 20K ohm |
| R216 | 06E20903S01 | 10K ohm |
| R217 | 06E22065S01 | 100K ohm |
| R218 | 06E22505S01 | 470 ohm |
| R219 | 06E22054S01 | 3.9K ohm |
| R220 | 06E22505S01 | 470 ohm |
| R221 | 06E22062S01 | 47K ohm |
| R222 | 06E22508S01 | 20K ohm |
| R223 | 06E20903S01 | 10K ohm |
| R224 | 06E22065S01 | 100K ohm |
| R225 | 06E22505S01 | 470 ohm |
| R226 | 06E22054S01 | 3.9K ohm |
| R227 | 06E22505S01 | 470 ohm |
| R228 | 06E22062S01 | 47K ohm |
| R229 | 06E22509S01 | 150K ohm |
| R230 | 06E22051S01 | 2.2K ohm |
| R231 | 06E22065S01 | 100K ohm |
| R301 | 06E22060S01 | 22K ohm |
| R302 | 06E20903S01 | 10K ohm |
| R305 | 06E22518S01 | M.O., 470 ohm 1/2W |
| R309 | 06E22048S01 | 1K ohm |
| R310 | 06E22048S01 | 1K ohm |
| R311 | 06E22048S01 | 1K ohm |
| R312 | 06E22048S01 | 1K ohm |
| R313 | 06E22048S01 | 1K ohm |
| R314 | 06E20903S01 | 10K ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R315 | 06E22506S01 | 3.6K ohm |
| R316 | 06E22508S01 | 20K ohm |
| R501 | 06E22062S01 | 47K ohm |
| R502 | 06E22062S01 | 47K ohm |
| R503 | 06E22062S01 | 47K ohm |
| R504 | 06E22062S01 | 47K ohm |
| R601 | 06E22041S01 | 100 ohm |
| R801 | 06E21164S01 | 1.5K ohm |
| R802 | 06E21164S01 | 1.5K ohm |

## Control P. C. Board

### IC's

| | | |
|---|---|---|
| IC303 | 51T55203W01 | XR1071 |
| IC305 | 51T83403F03 | µPC4570HA |
| IC306 | 51T83403F03 | µPC4570HA |
| IC310 | 51T83403F03 | µPC4570HA |
| IC311 | 51T40391U01 | TC4013P |
| IC312 | 51T40391U01 | TC4013P |
| IC314 | 51T83403F03 | µPC4570HA |
| IC407 | 51E22492S01 | GD4053B |
| IC408 | 51E22492S01 | GD4053B |
| IC501 | 51T93352F03 | M51958AL |
| IC502 | 51T83403F03 | µPC4570HA |

### Transistors

| | | |
|---|---|---|
| Q310 | 48E22555S01 | CP., DTC144EK |
| Q311 | 48T63420F01 | CP., 2SA1037K |
| Q312 | 48E22555S01 | CP., DTC144EK |
| Q313 | 48T63085F02 | 2SD1225M |
| Q314 | 48E22554S01 | CP., 2SC2412K |
| Q315 | 48E22555S01 | CP., DTC144EK |
| Q320 | 48E22555S01 | CP., DTC144EK |
| Q321 | 48E22554S01 | CP., 2SC2412K |
| Q322 | 48E22532S01 | KTC4368 |
| Q323 | 48E22553S01 | CP., DTA143XK |
| Q324 | 48E22552S01 | CP., DTC144WK |
| Q325 | 48T63420F01 | CP., 2SA1037K |
| Q326 | 48E22552S01 | CP., DTC144WK |
| Q327 | 48E22553S01 | CP., DTA143XK |
| Q328 | 48E22552S01 | CP., DTC144WK |
| Q329 | 48E22553S01 | CP., DTA143XK |
| Q330 | 48E22552S01 | CP., DTC144WK |
| Q331 | 48E22553S01 | CP., DTA143XK |
| Q332 | 48E22552S01 | CP., DTC144WK |
| Q401 | 48E22552S01 | CP., DTC144WK |

| Symbol No. | Part No. | Description |
|---|---|---|
| Q402 | 48E22552S01 | CP., DTC144WK |
| Q403 | 48E22552S01 | CP., DTC144WK |
| **Diodes** | | |
| D310 | 48E22529S01 | 11E2 |
| D311 | 48E22529S01 | 11E2 |
| D313 | 48E22529S01 | 11E2 |
| D314 | 48T68828F01 | 1SS133 |
| D315 | 48T68828F01 | 1SS133 |
| D503 | 48T70933F01 | 1SS136 |
| D504 | 48T70933F01 | 1SS136 |
| ZD312 | 48T83128F13 | Zener, HZS7B1L |
| ZD316 | 48T83128F26 | Zener, HZS9C2L |
| ZD317 | 48T83128F26 | Zener, HZS9C2L |
| ZD318 | 48T83128F29 | Zener, HZS11A2L |
| **Capacitors** | | |
| C001 | 08E22077S01 | CP., 47pF |
| C002 | 08E22077S01 | CP., 47pF |
| E115 | 23E22562S01 | ELY., 4.7µF / 50V |
| E116 | 23E22562S01 | ELY., 4.7µF / 50V |
| C120 | 08E08578S04 | CP., 1000pF |
| C121 | 08E20767S01 | CP., 3300pF |
| C122 | 08E20767S01 | CP., 3300pF |
| C123 | 08E22510S01 | CP., 180pF |
| E123 | 23E09402S02 | ELY., 10µF / 16V |
| C124 | 08E22549S01 | CP., 68pF |
| E124 | 23E22519S01 | ELY., 0.22µF / 50V |
| C125 | 08E20756S01 | PF., 0.15µF |
| E125 | 23E09402S02 | ELY., 10µF / 16V |
| C126 | 08E20756S01 | PF., 0.15µF |
| E126 | 23E09402S14 | ELY., 0.47µF / 50V |
| E127 | 23E09402S02 | ELY., 10µF / 16V |
| E128 | 23E22562S01 | ELY., 4.7µF / 50V |
| E129 | 23E09402S14 | ELY., 0.47µF / 50V |
| E130 | 23E09402S02 | ELY., 10µF / 16V |
| E131 | 23E09402S02 | ELY., 10µF / 16V |
| C133 | 08E20550S01 | CP., 220pF |
| E153 | 23E09402S02 | ELY., 10µF / 16V |
| E154 | 23E09402S02 | ELY., 10µF / 16V |
| E156 | 23E09402S02 | ELY., 10µF / 16V |
| E160 | 23E09402S02 | ELY., 10µF / 16V |
| E161 | 23E09402S07 | ELY., 22µF / 10V |
| E165 | 23E09402S02 | ELY., 10µF / 16V |
| E190 | 23E09402S02 | ELY., 10µF / 16V |
| E191 | 23E09402S02 | ELY., 10µF / 16V |

| Symbol No. | Part No. | Description |
|---|---|---|
| E215 | 23E22562S01 | ELY., 4.7µF / 50V |
| E216 | 23E22562S01 | ELY., 4.7µF / 50V |
| C220 | 08E22081S01 | CP., 1000pF |
| C221 | 08E20767S01 | CP., 3300pF |
| C222 | 08E20767S01 | CP., 3300pF |
| C223 | 08E22510S01 | CP., 180pF |
| E223 | 23E09402S02 | ELY., 10µF / 16V |
| C224 | 08E22549S01 | CP., 68pF |
| E224 | 23E22519S01 | ELY., 0.22µF / 50V |
| C225 | 08E20756S01 | PF., 0.15µF |
| E225 | 23E09402S02 | ELY., 10µF / 16V |
| C226 | 08E20756S01 | PF., 0.15µF |
| E226 | 23E09402S14 | ELY., 0.47µF / 50V |
| C227 | 23E22560S01 | ELY., (B.P) 3.3µF / 50V |
| E228 | 23E22562S01 | ELY., 4.7µF / 50V |
| E229 | 23E09402S14 | ELY., 0.47µF / 50V |
| E230 | 23E09402S02 | ELY., 10µF / 16V |
| E231 | 23E09402S02 | ELY., 10µF / 16V |
| E232 | 23E09402S02 | ELY., 10µF / 16V |
| C233 | 08E20550S01 | CP., 220pF |
| E238 | 23E09402S02 | ELY., 10µF / 16V |
| E253 | 23E09402S02 | ELY., 10µF / 16V |
| E254 | 23E09402S02 | ELY., 10µF / 16V |
| E261 | 23E09402S07 | ELY., 22µF / 10V |
| E309 | 23E22561S01 | ELY., 100µF / 16V |
| E310 | 23E22561S01 | ELY., 100µF / 16V |
| E311 | 23E09402S02 | ELY., 10µF / 16V |
| E312 | 23E09402S02 | ELY., 10µF / 16V |
| E313 | 23E09402S01 | ELY., 1µF / 50V |
| E315 | 23E09402S02 | ELY., 10µF / 16V |
| E317 | 23E09402S02 | ELY., 10µF / 16V |
| E319 | 23E09402S01 | ELY., 1µF / 50V |
| E320 | 23E09402S01 | ELY., 1µF / 50V |
| C501 | 08E22088S01 | CP., 0.1µF |
| C601 | 08E22087S01 | CP., 0.047µF |
| C602 | 08E22087S01 | CP., 0.047µF |
| C603 | 08E22550S01 | CP., 0.047µF |
| **Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)** | | |
| R132 | 06E22065S01 | 100K ohm |
| R133 | 06E22062S01 | 47K ohm |
| R134 | 06E22060S01 | 22K ohm |
| R135 | 06E22060S01 | 22K ohm |
| R136 | 06E22540S01 | 47K ohm 1/8W |
| R137 | 06E22061S01 | 33K ohm |
| R138 | 06E22055S01 | 4.7K ohm |
| R140 | 06E22060S01 | 22K ohm |
| R143 | 06E22060S01 | 22K ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R145 | 06E22656S01 | 6.8K ohm 1/8W |
| R146 | 06E22056S01 | 6.8K ohm |
| R147 | 06E22055S01 | 4.7K ohm |
| R149 | 06E22062S01 | 47K ohm |
| R232 | 06E22065S01 | 100K ohm |
| R233 | 06E22062S01 | 47K ohm |
| R234 | 06E22060S01 | 22K ohm |
| R235 | 06E22060S01 | 22K ohm |
| R236 | 06E22061S01 | 33K ohm |
| R241 | 06E22540S01 | 47K ohm 1/8W |
| R243 | 06E22060S01 | 22K ohm |
| R245 | 06E22056S01 | 6.8K ohm |
| R246 | 06E22056S01 | 6.8K ohm |
| R249 | 06E22062S01 | 47K ohm |
| R317 | 06E22068S01 | 1M ohm |
| R318 | 06E22545S01 | 2K ohm |
| R319 | 06E22547S01 | 680K ohm |
| R320 | 06E22058S01 | 12K ohm |
| R321 | 06E22065S01 | 100K ohm |
| R322 | 06E22055S01 | 4.7K ohm |
| R323 | 06E22065S01 | 100K ohm |
| R324 | 06E22545S01 | 2K ohm |
| R325 | 06E22546S01 | 51K ohm |
| R326 | 06E22111S01 | 5.6K ohm |
| R328 | 06E22041S01 | 100 ohm |
| R329 | 06E22067S01 | 470K ohm |
| R330 | 06E22062S01 | 47K ohm |
| R331 | 06E22539S01 | 22K ohm 1/8W |
| R332 | 06E22062S01 | 47K ohm |
| R333 | 06E22062S01 | 47K ohm |
| R334 | 06E22067S01 | 470K ohm |
| R335 | 06E22067S01 | 470K ohm |
| R336 | 06E22540S01 | 47K ohm 1/8W |
| R337 | 06E22060S01 | 22K ohm |
| R340 | 06E22060S01 | 22K ohm |
| R341 | 06E22548S01 | 470 ohm 1/4W |
| R346 | 06E22542S01 | 20 ohm |
| R347 | 06E22044S01 | 430 ohm |
| R349 | 06E22543S01 | 39 ohm |
| R350 | 06E22544S01 | 750 ohm |
| R351 | 06E22548S01 | 470 ohm 1/4W |
| R501 | 06E22064S01 | 68K ohm |
| R502 | 06E20851S01 | 43K ohm |
| R505 | 06E22065S01 | 100K ohm |
| R506 | 06E22065S01 | 100K ohm |
| R507 | 06E22541S01 | 100K ohm 1/8W |
| R508 | 06E22541S01 | 100K ohm 1/8W |
| R509 | 06E22050S01 | 1.8K ohm |
| R510 | 06E22062S01 | 47K ohm |
| R536 | 06E22062S01 | 47K ohm |
| R602 | 06E22062S01 | 47K ohm |
| R803 | 06E22048S01 | 1K ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R804 | 06E22067S01 | 470K ohm |
| R805 | 06E22067S01 | 470K ohm |

## Miscellaneous

| | | |
|---|---|---|
| ET303 | 01E22503S01 | Assy., Power Supply Connector |
| JK101 | 09E22565S01 | Jack, RCA (INPUT L / R) |
| JK102 | 09E22565S01 | Jack, RCA (FRONT - OUTPUT L / R) |
| JK103 | 09E22565S01 | Jack, RCA (REAR - OUTPUT L / R) |
| JK104 | 09E22565S01 | Jack, RCA (SUB WOOFER L / R) |
| LD364 | 48T55661W01 | LED, AABG4607K (GRN / ORG) |
| LD365 | 48T55661W01 | LED, AABG4607K (GRN / ORG) |
| LD366 | 48T51833F02 | LED, PR4524K (RED) |
| LD367 | 48T51833F01 | LED, PY4524K (YEL) |
| LD368 | 48T51833F01 | LED, PY4524K (YEL) |
| LD369 | 48T51833F03 | LED, BG4524K (GRN) |
| LD370 | 48T51833F03 | LED, BG4524K (GRN) |
| VR901, S901 | 18T75339W01 | Rotary Volume (CROSSOVER / SUB W.) |



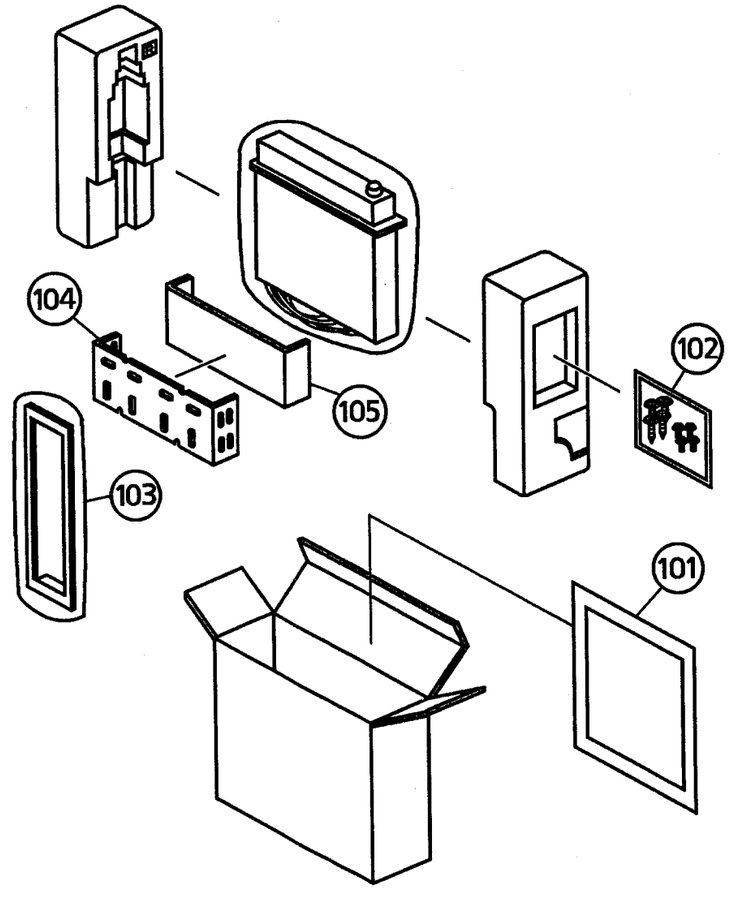
# Packing Assembly Parts List

| Symbol No. | | Part No. | Description |
|---|---|---|---|
| ○ | 101 | 68P61487W40 | Owner's Manual |
| △ | 101 | 68P61487W42 | Owner's Manual |
| | 102-1 | 03E09554S02 | Screw, Tapping (M5×20) |
| | 102-2 | 03E09694S01 | Screw, MCH (M4×8) |
| | 103 | 64E22804S01 | Face, Plate |
| | 104 | 07E22805S01 | Bracket, Mounting U |
| | 105 | 75E22806S01 | Sheet, Pad |

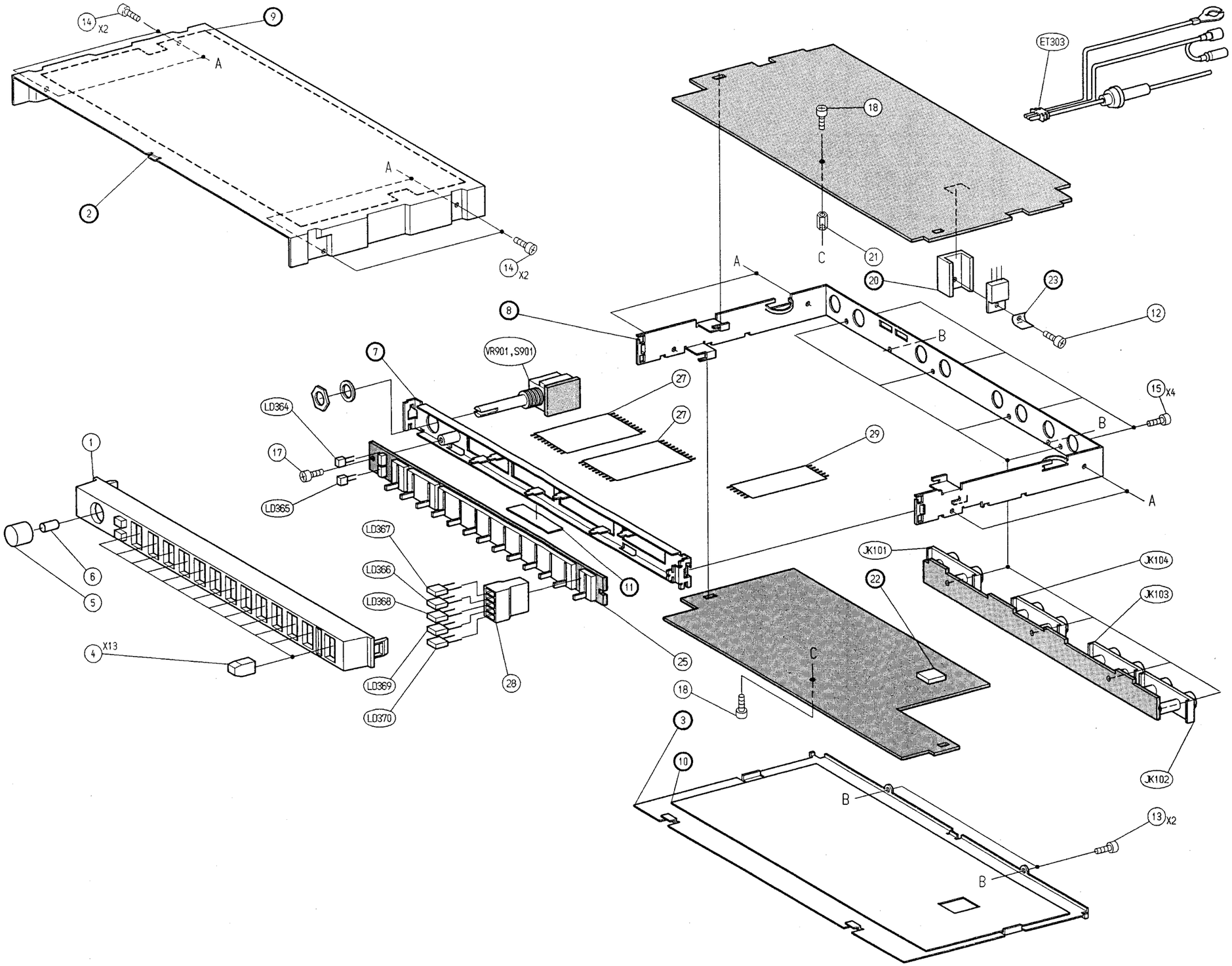
| Symbol No. | Part No. | Description |
|---|---|---|

**NOTE** : ○ : For North American Model Only, △ : For General Foreign Model Only, Others : Common.

# Packing Method View



# Exploded View (Cabinet)



# Cabinet Assembly Parts List

**NOTE** : No parts number on parts list are not supplied.

| Symbol No. | Index | Part No. | Description |
|---|---|---|---|
| 1 | 3-B | 13B70978W01 | Assy., Nosepiece |
| 4 | 4-B | 36A70980W01 | Knob, Slide |
| 5 | 4-B | 36E22581S01 | Knob, Cross |
| 6 | 4-B | 41A63556F02 | Spring, Knob Insert |
| 12 | 2-G | 03E22117S01 | Screw, MCH-TPT (M2.6×8) |
| 13 | 5-G | 03E22575S01 | Screw, TPT (M2.6×5) |
| 14 | | 03E22576S01 | Screw, TPT (M2.6×5) |
| 15 | 3-G | 03E22577S01 | Screw, TPG-TPT (M3×8) |
| 17 | 3-C | 03E22579S01 | Screw, MCH (M2×5) |
| 18 | | 03E22580S01 | Screw, MCH (M2.6×5) |
| 21 | 2-F | 47E22449S01 | Stud, Main Shaft |
| 25 | 4-E | 18T75337W01 | Slide Variable Resistor (Included VR350~362, LD350~361(GRN), 362(ORG), S350(BBE), 351(EQ/DEFEAT), R351~356) |
| 27 | 3-E | 30E22568S01 | Wire, Flat 13P |
| 28 | 4-D | 15B70979W01 | Cover, LED |
| 29 | 3-F | 30E22567S01 | Wire, Flat 6P |

| Symbol No. | Index | Part No. | Description |
|---|---|---|---|